CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 04.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

* **Sample ID** : RCC Drain Bed Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 04.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.09.2016	04.10.2016	8.098	489.3	21.75
2	06.09.2016	04.10.2016	8.182	498.3	22.15
3	06.09.2016	04.10.2016	8.297	512.3	22.77

* Information is furnished by the Customer/Representative

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Civil Tech Consultants & Engineers Bangalore

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

* **Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 15.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	15.09.2016	8.139	332.6	14.78
2	08.09.2016	15.09.2016	8.290	346.3	15.39
3	08.09.2016	15.09.2016	8.358	352.3	15.66

* Information is furnished by the Customer/Representative

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Quality Manager

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

*** Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	06.10.2016	8.182	478.3	21.26
2	08.09.2016	06.10.2016	8.290	493.6	21.94
3	08.09.2016	06.10.2016	8.265	510.2	22.68

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Quality Manager

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 17.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

* **Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 17.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.100	332.5	14.78
2	10.09.2016	17.09.2016	8.259	350.2	15.56
3	10.09.2016	17.09.2016	8.315	351.3	15.61

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 08.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.125	482.3	21.44
2	10.09.2016	08.10.2016	8.239	498.6	22.16
3	10.09.2016	08.10.2016	8.315	512.2	22.76

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 17.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 17.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.158	330.3	14.68
2	10.09.2016	17.09.2016	8.285	352.6	15.67
3	10.09.2016	17.09.2016	8.392	358.2	15.92

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/64/2016-17 Dated: 02.09.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 08.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.120	485.5	21.58
2	10.09.2016	08.10.2016	8.290	493.6	21.94
3	10.09.2016	08.10.2016	8.335	510.2	22.68

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/Pre Cast Slab/2016-17 13.09.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of RCC drain Kodava samaja surrounding area & other roads in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/64/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre Cast Slab
Sample received on	:	08.09.2016
Date of Testing	:	13.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.398	2502.47	1.62	0.960	32.50	16.55	17.88	17.16	21.45
2	50.00	82.00	0.405	2515.42	1.64	0.965	33.20	16.91	18.26	17.62	22.03
3	50.00	83.00	0.416	2552.62	1.66	0.970	33.90	17.27	18.65	18.09	22.61

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